## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	0.00	Rating **	Α	Issue No.		58	
LM End	0.00	Issue Type +	Ma	Location *		N/A	
Category Earthen Levee			GPS Latitude/Longitude				
				Start		End	
Item	Operations & Maintenance						0
item	Manuals				0		0
DWR ID DWR_RD0563_01_s _ 2012_58							
		Comn	nent Cod	de			
		Inspecto	or Comm	nent			
The LMA has a copy of the O&M Manual.							

No Photos

Issue No. Rating \*\* Α 0.00 101 LM Start 0.00 Issue Type + Ма Location \* N/A LM End Earthen Levee GPS Latitude/Longitude Category Start End Emergency Supplies & Item Equipment DWR\_RD0563\_01\_s \_ 2013\_101 DWR ID Comment Code

Inspector Comment

No Photos

The LMA maintains an adequate stockpile of flood fight supplies.

LM Start	0.00	Rating **	Α	Issue No.		102		
LM End	0.00	Issue Type +	Ma	Location *		N/A		
Category Earthen Levee				GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Flood Pre	paredness &		0		0		
пеш	Rem				0		0	
DWR ID	DWR_RD0	563_01_s _ 201	3_102					
		Comn	nent Cod	le				
Inspector Comment								
The LMA h	The LMA has received flood fight training within the last two years.							

No Photos

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	0.01	Rating **	М	Issue No.	130			
LM End	0.01	Issue Type +	Ma	Location *	LS			
Category	evee	GPS Latitude/Longitude						
Category				Start		End		
	Trim / Thi	n Trees		38.23505	9°	38.235059°		
пеш	Item				80 °	-121.517480°		
DWR ID	DWR ID DWR_RD0563_01_f _ 2016_130							
	Comment Code							

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Rating \*\* Issue No. 0.04 М LM Start 77 Issue Type + Ма Location \* WS LM End 0.11 Supplemental GPS Latitude/Longitude Category Start End 2017 USACE Erosion Survey, 38.234861° 38.234133° Item DRAFT -121.517934° -121.518758° DWR\_RD0563\_01\_f \_ 2018\_77 DWR ID Comment Code

Inspector Comment

2017 Site ID: GEO 12.0 L Status: Eroding New

2017 Field Notes: Toe erosion throughout site, slumping, subvertical

levee slope in sections.

Site History:

LM Start	0.06	Rating **	М	Issue No.		131	
LM End	0.06	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Vegetation			38.2345	38°	38.234538	٥
пеш				-121.5180	12°	-121.518012	٥
DWR ID DWR_RD0563_01_f _ 2018_131							
Comment Code							
V/4 . Cambr			-l l-	- 11			

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

No Photos

No Photos

\* Location

LS: Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

		5 ++						
LM Start	0.11	Rating **	М	Issue No.		4		
LM End	0.11	Issue Type +	Ma	Location *		WS		
Category	evee		GPS La	atitud	e/Longitude			
Category				Start		End		
Item	Trim / Thin Trees				18°	38.234018 °		
пеш	nem				47°	-121.518547°		
DWR ID	DWR ID DWR_RD0563_01_s _ 2012_4							
		Comn	nent Cod	de				
T1: Trim t	rees to at	east five feet	above g	round level				
		Inanasta	or Comm	ant.				
Inspector Comment								

No Photos

LM Start	0.17	Rating **	М	Issue No.		32	
LM End	0.21	Issue Type +	Ma	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Encroach	ments		38.2333	15°	38.232887°	
item				-121.5193	60°	-121.519852°	
DWR ID DWR_RD0563_01_s _ 2012_32							
		_					

Comment Code

TR: Tree or limb

## Inspector Comment

Tree fallen across waterward slope.

LM Start	0.17	Rating **	М	Issue No.	32 (cont)
LM End	0.21	Issue Type +	Ma	Location *	WS

## Photo 1 of 2: FA\_2018\_RD0563\_210\_32\_20180925\_00016.jpg



Looking downstream at tree branch on waterward slope. (Spring 2017)

Photo 2 of 2: FA\_2018\_RD0563\_210\_32\_20180925\_00017.jpg



Looking downstream at fallen tree limb on waterside slope. (Spring 2016)

\* Location + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence N/A: Not Applicable LS: Land Side A : Acceptable M : Minimally Acceptable N : Not Inspected/Rated WS: Water Side C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain En: Enforcement Page 3 of 49

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	0.19	Rating **	М	Issue No.		2
LM End	0.34	Issue Type +	Ма	Location *		WS
Category Earthen Levee				GPS L	atitud	e/Longitude
				Start		End
	Trim / Thin Trees			38.2331	26°	38.231435 °
пеш				-121.519525°		-121.521282 °
DWR ID	DWR_RD0	563_01_s _ 201	2_2			
		Comn	nent Coo	de		
T1 : Trim t	rees to at	east five feet	above g	round level		
	Inspector Comment					

No Photos

LM Start	0.21	Rating **	M	Issue No.		138
LM End	0.66	Issue Type +	Ma	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory		Start		End		
Item	Vegetation			38.2328	77°	38.228100°
пеш				-121.5198	55°	-121.525225°
DWR ID DWR_RD0563_01_f _ 2015_138						

#### Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Dense vegetation on landside slope.

LM Start	0.21	Rating **	М	Issue No.	138 (cont)
LM End	0.66	Issue Type +	Ma	Location *	LS

## Photo 1 of 2: FA\_2018\_RD0563\_210\_138\_20180925\_00094.jpg



Looking west at dense veg on landward slope.

## Photo 2 of 2: FA\_2018\_RD0563\_210\_138\_20180925\_00095.jpg



Looking east at dense veg on landward slope.

\* Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

\*\* Rating

A: Acceptable
N: Not Inspected/Rated
M: Minimally Acceptable
U: Unacceptable
U: Unacceptable
A: Acceptable
CR: Crown

\*\* Rating

A: Acceptable
N: Not Inspected/Rated
C: Corrected
C: Corrected
A/W: Acceptable but Monitor & Maintain

\*\* Assue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	0.40	Rating **	М	Issue No.		114	
LM End	0.40	0.40 Issue Type + Ma Location * WS					
Category	evee	GPS La	atitud	e/Longitude			
Calegory				Start		End	
Item	Encroach	ments		38.2307	'44 °	38.230744	0
item				-121.5220	22°	-121.522022	0
DWR ID	DWR_RD0	563_01_f _ 201	7_114				
		Comn	nent Cod	de			
TR : Tree	or limb						
			_				
Inspector Comment							



Looking southwest at the waterside slope.

LM Start	<b>0.44</b> Rating ** M		Issue No.		7	
LM End	0.44	Issue Type +	Ma	Location *		WS
Category	evee	GPS Latitude/Longitude				
Category			Start		End	
Item	Trim / Thin Trees				57°	38.230357°
пеш				-121.5224	85°	-121.522485 °
DWR ID DWR_RD0563_01_f _ 2018_7						
Comment Code						

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

LM Start	0.45	Rating **	A/W	Issue No.		72	
LM End	0.70	) Issue Type + Ma		Location *	WS		
Category	Suppleme	ental	GPS Latitude/Longitude				
Category				Start		End	
Item	2017 USACE Erosion Survey,				26°	38.227692	0
пеш	DRAFT			-121.5228	86°	-121.526096	0
DWR ID DWR_RD0563_01_f _ 2018_72							
Comment Code							

Inspector Comment

2017 Site ID: GEO 11.4 L

Status: Critical

2017 Field Notes: New erosion site, upgraded to critical. Subvertical face from levee hinge, large erosion pockets, and toe erosion

throughout. Site History:

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	0.49	Rating **	М	Issue No.		132	
LM End	0.49	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee					e/Longitude	
Category				Start		End	
Item	Trim / Thi	n Trees		38.2297	'47 °	38.229747°	
пеш				-121.5230	57°	-121.523057°	
DWR ID	DWR_RD0	563_01_f _ 201	8_132				
		Comn	nent Coo	de			
T1 : Trim t	rees to at	east five feet	above g	round level			
	Inspector Comment						

No Photos

LM Start	0.53	53 Rating ** M		Issue No.		34	
LM End	0.53	Issue Type + Ma		Location *	WS		
Category	Earthen L	evee	GPS La	atitud	e/Longitude		
Calegory			Start		End		
Item	Slope Sta	bility		38.2292	32°	38.229232	0
пеш				-121.5235	38°	-121.523538	0
DWR ID	WR ID DWR_RD0563_01_f _ 2018_34						

## Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

## Inspector Comment

Slope damage is due to vehicle traffic.

# Photo 1 of 1 : FA\_2018\_RD0563\_210\_34\_20180925\_00018.jpg



Looking northwest at slope damage caused by vehicle traffic.

LM Start	<b>0.56</b> Rating ** M		Issue No.		143		
LM End	0.56	Issue Type +	Ma	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Calegory		Start		End			
Item	Slope Sta	bility		38.22893	30°	38.228930°	
item			-121.52393	35 °	-121.523935 °		
DWR ID DWR_RD0563_01_f _ 2014_143						·	
	Comment Code						

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

## Inspector Comment

Slope damage due to vehicle traffic.

## Photo 1 of 2: FA\_2018\_RD0563\_210\_143\_20180925\_00100.jpg



Looking southeast at slope damage on waterward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	0.56	Rating **	М	Issue No.	143 (cont)			
LM End	0.56	Issue Type +	Ма	Location *	WS			
Category	Earthen L	evee	GPS La	titud	le/Longitude			
Category				Start		End		
Item	Slope Sta	bility		38.2289	30°	38.228930°		
пеш				-121.5239	35 °	-121.523935 °		
DWR ID DWR_RD0563_01_f _ 2014_143								
	Comment Code							

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Slope damage due to vehicle traffic.

Photo 2 of 2 : FA\_2018\_RD0563\_210\_143\_20180925\_00101.jpg



Looking northwest at slope damage on waterward slope.

LM Start	0.63	Rating **	M	Issue No.		133	
LM End	0.63	Issue Type +	Ma	Location *		WS	
Catagoni Earthen Levee				GPS La	titud	e/Longitude	
Calegory	Category			Start		End	
Item	Vegetatio	n		38.2282	72 °	38.228272 °	
ILEIII				-121.52490	00°	-121.524900 °	
DWR ID	R ID DWR_RD0563_01_f _ 2018_133						

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Remove vegetation on the waterside slope.

No Photos

LM Start	0.70	Rating **	С	Issue No.		108		
LM End	0.79	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS La	atitud	e/Longitude		
Category		Start		End				
Item	Vegetatio	n		38.2276	63°	38.226338	0	
item				-121.5257	43°	-121.525927	0	
DWR ID	DWR_RD0	563_01_s _ 201	8_108					
Comment Code								

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

* Location		** Rating		+ Issue Type
LS: Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CD · Crown		II : Unaccontoble	AMM: Accortable but Maniter & Maintain	En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	0.73	Rating **	IJ	Issue No.		3		
LIVI Start	0.73							
LM End	0.79	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Trim / Thi	n Trees		38.2271	69°	38.226370°		
пеш				-121.525892 °		-121.525912°		
DWR ID DWR_RD0563_01_s _ 2012_3								
		Comn	nent Cod	de				
T1: Trim t	rees to at I	east five feet	above g	round level				
		Inspecto	or Comm	nent				
Dense veg on waterward slope.								

LM Start	0.73	Rating **	U	Issue No.	3 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS

# Photo 1 of 2 : FA\_2018\_RD0563\_210\_3\_20180925\_00001.jpg

Looking east at untrimmed trees on waterward slope. (Fall 2016)

Photo 2 of 2: FA\_2018\_RD0563\_210\_3\_20180925\_00002.jpg



Looking east at untrimmed trees on waterward slope and toe. (Spring 2016)

LM Start	0.88	Rating **	М	Issue No.		120		
LM End	0.88	Issue Type +	Ma	Location *	WS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Encroachi	ments		38.2254	82°	38.225482 °		
пеш				-121.526882°		2° -121.526882°		
DWR ID DWR_RD0563_01_s _ 2017_120								
		Comn	nent Cod	de				
TR : Tree of	or limb							
			_					
		Inspecto	or Comm	nent				
Fallen tree on waterward slope.								
Inspector Comment Fallen tree on waterward slope.								



Looking southwest at fallen tree on waterward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	0.92	Rating **	М	Issue No.		70	
LM End	1.11	Issue Type +	Ma	Location *		WS	
Catagony	Supplemental Supplemental				atitud	e/Longitude	
Calegory						End	
Item		CE Erosion S	Survey,	38.2256	60°	38.227157°	
пеш	DRAFT			-121.5275	56°	-121.530432 °	
DWR ID	ID DWR_RD0563_01_f _ 2018_70						
	Comment Code						

#### **Inspector Comment**

2017 Site ID: GEO 11.0 L

Status: Eroding

2017 Field Notes: Increased toe erosion, slumping, boat wake erosion, and revetment failure near downstream end. Site extended upstream. Site History: 2011 - Short sections of eroding bank at the waterline and holes in toe of levee. 2012 - Site extended upstream. 2013 - Erosion pockets filled with an insufficient amounts of revetment. 2016 - Fresh erosion observed.



USACE 2013 Photo #1

LM Start	0.92	Rating **	A/W	Issue No.		755	
LM End	0.92	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory		Sta		Start		End	
Item	Trim / Thi	n Trees		38.22554	9°	38.225549	0
пеш				-121.52765	8°	-121.527658	0
DWR ID DWR_RD0563_01_s _ 2015_755							
	Comment Code						

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	0.95	Rating **	U	Issue No.		121	
LM End	0.95	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee					e/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		38.2258	08°	38.225808°	
item				-121.5281	97°	-121.528197°	
DWR ID	DWR ID DWR_RD0563_01_s _ 2017_121						
		Comn	nent Cod	de			
A1 : Exterr	minate rod	ents and back	fill and o	compact or	grou	t burrows.	
		Inspecto	or Comm	nent			
Several lar	ge rodent	holes on land	ward slo	pe.			

Ма

Issue No.

Location \*

121 (cont)

LS

0.95

0.95

LM Start

LM End

Rating \*\*

Issue Type +

Photo 1 of 2 : FA_2018	_RD0563_	_210_121	_20180925_	_00080.jpg
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			The state of the s	1000
		18	6.84	14.15
	-	4	E THE FUNDER	14. 16.20

Looking at typical rodent hole within this reach.

Photo 2 of 2: FA\_2018\_RD0563\_210\_121\_20180925\_00081.jpg



3/30/2018: Rodent burrows on landside.

LM Start	0.98	Rating **	С	Issue No.		756	
LM End	0.98	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thin Trees			38.2260	11 °	38.226011	0
пеш				-121.5285	24°	-121.528524	0
DWR ID	DWR_RD0	563_01_s _ 201	5_756				
		Comn	nent Cod	de			
T1 : Trim t	rees to at	least five feet	above g	round level			
		Inspect	or Comm	nent			

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	0.99	Rating **	М	Issue No.		147
LM End	0.99	Issue Type +	Ma	Location *		LS
Catagory Earthen Levee			GPS Latitude/Longitude			
Calegory	Category			Start		End
Item	Animal Co	ontrol		38.2261	38°	38.226138°
пеш				-121.52874	45 °	-121.528745 °
DWR ID DWR_RD0563_01_f _ 2014_147						
	Comment Code					

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	1.01	Rating **	С	Issue No.		757
LM End	1.01	Issue Type +	Ма	Location *		LS
Category Earthen Levee			GPS La	titud	le/Longitude	
			Start		End	
ltem -	Trim / Thir	n Trees		38.2262	94°	38.226294°
iteiii				-121.5290	55 °	-121.529055 °
DWR ID	DWR_RD0	563_01_s _ 201	5_757			

Comment Code

T1: Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

LM Start	1.03	Rating **	U	Issue No.		110	
LM End	1.03	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		38.2264	22°	38.226422	٥
item				-121.5294	10°	-121.529410	٥
DWR ID	DWR RD0	563 01 s 201	8 110				

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

## Inspector Comment

Very large rodent burrow has caused landside shoulder to collapse. Shoulder should be restored.

## Photo 1 of 1: FA\_2018\_RD0563\_210\_110\_20180925\_00072.jpg



3/30/2018: Very large rodent burrow causing caving at landside shoulder.

LS: Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	1.09	Rating **	A/W	Issue No.	758		
LM End	1.11	Issue Type +	Ma	Location *	WS		
Earthen Levee				GPS La	titud	e/Longitude	
Category				Start		End	
Item	Trim / Thin Trees			38.22689	)2 °	38.227053°	
item				-121.530234°		-121.530632°	
DWR ID	DWR_RD0	563_01_s _ 201	5_758				
		Comn	nent Coc	le			
T1 : Trim trees to at least five feet above ground level.							
		Inspecto	or Comm	ent			

No Photos

LM Start	1.15	Rating **	U	Issue No.		153
LM End	1.15	Issue Type +	Ма	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End
Item	Animal Co	ontrol		38.2269	10°	38.226910°
item				-121.5312	94°	-121.531294°
DWR ID	DWR_RD0	563_01_f _ 201	5_153			

#### Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

## Inspector Comment

Several large to medium rodent holes noted.

# Photo 1 of 1: FA\_2018\_RD0563\_210\_153\_20180925\_00107.jpg



Looking at typical view of several rodent holes on landward slope.

	LM Start	1.15	Rating **	М	Issue No.		135	
	LM End	1.15	Issue Type +	Ma	Location *		WS	
	Category	Earthen L	evee		GPS La	titud	le/Longitude	
	Calegory				Start		End	
	Item	Trim / Thi	n Trees		38.2268	85°	38.226885	0
	пеш		-121.5312	82°	-121.531282	0		
	DWR ID	DWR_RD0	563_01_f _ 201	8_135				
ı		Comn	nent Cod	le				

T1: Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

*	Location
---	----------

LS: Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	1.20	Rating **	М	Issue No.		69
LM End	1.93	Issue Type +	Ma	Location *	WS	
Category	Suppleme	ental		GPS La	titud	e/Longitude
Calegory				Start		End
Item		CE Erosion S	Survey,	38.22663	85 °	38.222157°
пеш	DRAFT			-121.53216	7°	-121.543591 °
DWR ID DWR_RD0563_01_f _ 2018_69						
		Comn	nent Coc	مام		

No Photos

Inspector Comment

2017 Site ID: GEO 10.2 L Status: Eroding New

2017 Field Notes: Evidence of meander process, eroding to short

vertical face Site History:

LM Start	1.32	Rating **	С	Issue No.		79		
LM End	1.32	Issue Type +	Ma	Location *	LS			
Category	Earthen L	evee		GPS La	titud	le/Longitude		
Category				Start		End		
Item	Trim / Thi	n Trees	38.22517	77°	38.225177°			
item				-121.53328	35 °	-121.533285 °		
DWR ID	DWR ID DWR_RD0563_01_f _ 2013_79							
	Comment Code							

No Photos

T1: Trim trees to at least five feet above ground level.

Inspector Comment

LM Start	1.39	Rating **	М	Issue No.		5	
LM End	1.39	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Category			Start		End		
Item	Encroach	ments		38.224398 °		38.224398°	
item				-121.5341	25°	-121.534125	o
DWR ID	DWR_RD0	563_01_s _ 201	18_5				
		Comn	nent Cod	de			
TR : Tree	or limb						

Inspector Comment

No Photos

\* Location

LS : Land Side N/A : Not Applicable

WS : Water Side N/A : Not Applica

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma : Mainte

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	1.42	Rating **	М	Issue No.		759		
LM End	1.42	Issue Type +	Ма	Location *		WS		
Category	evee		GPS La	atitud	e/Longitude			
Calegory			Start		End			
Item	Trim / Thin Trees			38.224150 °		38.224150°		
пеш				-121.534565 °		° -121.534565 °		
DWR ID	DWR ID DWR_RD0563_01_s _ 2015_759							
	Comment Code							
T1 : Trim t	rees to at I	east five feet	above d	round level				

Inspector Comment



Looking northwest at untrimmed trees on waterward slope and toe.

1.60	Rating **	М	Issue No.		56	
1.60	Issue Type +	Ма	Location *	WS		
Category Earthen Levee					e/Longitude	
			Start		End	
Trim / Thi	n Trees		38.2233	03°	38.223303	0
Item				22°	-121.537722	0
DWR ID DWR_RD0563_01_s _ 2012_56						
	1.60 Earthen L Trim / Thi	1.60 Issue Type + Earthen Levee Trim / Thin Trees	1.60 Issue Type + Ma Earthen Levee Trim / Thin Trees	1.60         Issue Type +         Ma         Location *           Earthen Levee         GPS La           Start         Start           Trim / Thin Trees         38.2233           -121.5377	1.60         Issue Type +         Ma         Location *           Earthen Levee         GPS Latitud           Start           Trim / Thin Trees         38.223303 °           -121.537722 °	1.60         Issue Type +         Ma         Location *         WS           Earthen Levee         GPS Latitude/Longitude           Start         End           Trim / Thin Trees         38.223303 °         38.223303           -121.537722 °         -121.537722

Comment Code

T1: Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

LM Start	1.68	Rating **	M	Issue No.		115	
LM End	1.68	Issue Type + Ma		Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory			Start End				
Item	Animal Co	ontrol		38.2230	98°	38.223098	0
item				-121.5391	30°	-121.539130	0
DWR ID	DWR_RD0	563_01_f _ 201	7_115				
		Comn	le				

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

No Photos

\* Location LS: Land Side

N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

		D 11 ++		1 NI.				
LM Start	1.69	Rating **	М	Issue No.	123			
LM End	1.69	Issue Type +	Ma	Location *		WS		
Category	evee		GPS La	atitud	e/Longitude			
Calegory			Start		End			
Encroachments ltem				38.223110°		38.223110°		
item				-121.539495 °		° -121.539495		
DWR ID	DWR_RD0	563_01_s _ 201	17_123					
		Comn	nent Cod	de				
TR: Tree or limb								
		Inspect	or Comm	ent				

Inspector Comment

Fallen tree on waterside slope.



Looking south at fallen tree on waterward slope.

LM Start	1.95	Rating **	М	Issue No.		71	
LM End	1.95	Issue Type +	Ma	Location *	LS		
Catagony	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Erosion /	Bank Caving		38.221826 ° 38.221			
пеш				-121.543467 ° -121.5434			
DWR ID	DWR_RD0563_01_f _ 2012_71						
Comment Code							

E1 : Note and monitor erosion site.

Inspector Comment

Erosion around irrigation pump house and pipe on landside slope.

LM Start	1.95	Rating **	М	Issue No.	71 (cont)
LM End	1.95	Issue Type +	Ма	Location *	LS

## Photo 1 of 2: FA\_2018\_RD0563\_210\_71\_20180925\_00028.jpg



Looking west at erosion at landside toe and slope next to pump house.

Photo 2 of 2: FA\_2018\_RD0563\_210\_71\_20180925\_00029.jpg



Looking southwest at erosion around irrigation pipe on landside slope and toe.

\*Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

\*\* Rating

A : Acceptable N : Not Inspected/Rated M : Maintenance Deficiancy

C : Corrected Ob : Design & System Obsolescence

U : Unacceptable A/W : Acceptable but Monitor & Maintain Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	1.98	Rating **	М	Issue No.		66
LM End	2.22	Issue Type +	Ма	Location *		WS
Category	Suppleme	ental		GPS La	titud	e/Longitude
Category			Start		End	
Item	2017 USACE Erosion Survey,			38.22140	)5 °	38.217972°
пеш	DRAFT	DRAFT			27°	-121.542861 °
DWR ID	DWR_RD0	563_01_f _ 201	8_66			·

No Photos

Inspector Comment

Comment Code

2017 Site ID: GEO 10.0 L Status: Eroding New

2017 Field Notes: Revetment failure, toe erosion moving landward.

Site History:

LM Start	2.08 Rating **		A/W	Issue No.		14
LM End	2.19	Issue Type +	Ма	Location *		LS
Category	Earthen L	GPS Latitude/Longitude				
Calegory			Start		End	
Item	Animal Control			38.2200	28°	38.218494°
пеш			-121.5429	22 °	-121.542646°	
DWR ID	DWR_RD0563_01_s _ 2012_14					

No Photos

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

	LM Start	2.24	Rating **	M	Issue No.	127		
	LM End	2.29	Issue Type +	Ma	Location *	WS		
	Category	Supplemental			GPS Latitude/Longitude			
					Start		End	
	Item		ACE Erosion S	Survey,	38.2176	80°	38.217003	0
		DRAFT			-121.542761 °		-121.542309	0
	DWR ID	DWR_RD0	563_01_f _ 201					

No Photos

Inspector Comment

Comment Code

2017 Site ID: GEO 9.8 L Status: Eroding New

2017 Field Notes: Whole bank failure, eroded to subvertical face, and

giant animal holes. Site History:

\* Location

LS: Land Side N/A: Not Applicable

WS: Water Side

\*\* Rating
A : Accepta

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type
Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Ob : Design & System En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

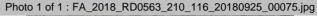
# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	2.25	Rating **	A/W	Issue No.		116	
LM End	2.25	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Erosion / Bank Caving			38.217588 °		38.217588°	
пеш			-121.5425	20°	-121.542520 °		
DWR ID	DWR_RD0563_01_s _ 2017_116						
Comment Code							
E2 : Sched	E2 : Schedule repair of erosion site prior to the next inspection.						

Inspector Comment

LMA found the erosion while on patrol during the February Storm 2017.





Looking east at the landside toe erosion.

LM Start	2.40	Rating **	U	Issue No.		12
LM End	2.41	Issue Type +	Ma	Location *	WS	
Category	Earthen L		GPS Latitude/Longitude			
Calegory				Start		End
Item	Vegetation			38.21612	22°	38.216047°
пеш				-121.5405	55 °	-121.540415°
DWR ID	DWR_RD0	563_01_s _ 201	2_12			
Comment Code						

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Dense elderberry on waterside shoulder and slope.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	2.47	Rating **	М	Issue No.		107	
LM End	3.30	Issue Type +	Ма	Location *	WS		
Category	Supplemental			GPS Latitude/Longitude			
Category			Start		End		
Item		CE Erosion S	Survey,	38.215405 ° 38.20804			
пеш	DRAFT		-121.53970	64 °	-121.540759°		
DWR ID	DWR_RD0563_01_f _ 2018_107						
Comment Code							

## Inspector Comment

2017 Site ID: GEO 9.3 L

Status: Critical

2017 Field Notes: Upgraded to critical. Pockets of erosion - subvertical. Areas of failed revetment, old rock is unraveling, and eminent tree popout outs expected.

Site History: 1997 - Loss of rock at toe; pockets of upper berm erosion; very narrow berm width; toe rock problem; erosion pockets in rock. 2002 - New brush boxes at toe of the worst spots. 2005 - Upstream 200 ft removed because of the wide berm. 2006 - Some rock repair pockets behind the brush boxes at the upstream end. 2010 - Some new erosion. 2013 - New rock placed on the levee slope. 2016 - Fresh erosion along the toe.



USACE 2013 Photo #1

LM Start	2.50	Rating **	M	Issue No.		139		
LM End	2.50	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory		Start		End				
Item	Vegetation			38.215280°		38.215280	0	
item		-121.5390	32°	-121.539032	0			
DWR ID	DWR_RD0	563_01_f _ 201	8_139					
Comment Code								

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	2.67	Rating **	М	Issue No.		140	
LM End	2.67	Issue Type +	Ma	Location *	WS		
Category	evee	GPS La	atitud	e/Longitude			
Calegory	Category			Start		End	
Item	Trim / Thi	n Trees		38.2134	93 °	38.213493 °	
пеш				-121.5370	90°	-121.537090 °	
DWR ID DWR_RD0563_01_f _ 2018_140							
Comment Code							
T4 . Trima t	roop to ot	coat five foot	ahaya a	round lovel			

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

LM Start	2.70	Rating **	М	Issue No.		162	
LM End	2.70	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory				Start		End	
Item	Trim / Thin Trees			38.2130	96°	38.213096°	
item				-121.5367	38°	-121.536738°	
DWR ID DWR_RD0563_01_s _ 2016_162							
	Comment Code						

T1: Trim trees to at least five feet above ground level.

## Inspector Comment

Untrimmed tree on waterside shoulder.

No Photos

LM Start	2.93	Rating **	A/W	Issue No.		67	
LM End	2.95	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.2104	72°	38.210358	0
пеш				-121.5351	75 °	-121.535478	0
DWR ID	DWR_RD0	563_01_s _ 201	2_67				

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Dead Vines (Berry or wildroses) on landside toe.





Looking east at dead berryvines at landward toe. (Spring 2017

\* Location + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence LS: Land Side N/A: Not Applicable A : Acceptable M : Minimally Acceptable N: Not Inspected/Rated WS: Water Side C : Corrected A/W : Acceptable but Monitor & Maintain U : Unacceptable En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	2.93	Rating **	A/W	Issue No.		67 (cont)
LM End	2.95	Issue Type +	Ма	Location *		LS
Category	Catagoria Earthen Levee				titud	e/Longitude
Calegory	legory			Start		End
Item	Vegetatio	n		38.2104	72 °	38.210358°
пеш				-121.5351	75°	-121.535478°
DWR ID DWR_RD0563_01_s _ 2012_67						

#### Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Dead Vines (Berry or wildroses) on landside toe.

## Photo 2 of 2: FA\_2018\_RD0563\_210\_67\_20180925\_00025.jpg



Looking east at dead berryvines at landward toe. (Fall 2016)

LM Start	3.02	Rating **	М	Issue No.		74	
LM End	3.21 Issue Type + Ma Location *		Issue Type + Ma			LS	
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Vegetatio	n		38.2102	12°	38.209165°	
пеш				-121.5367	28°	-121.539920°	
DWR ID	VR ID DWR_RD0563_01_s _ 2012_74						

#### Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Dead berryvines and dense vegetation at landside toe blocking view of toe.

LM Start	3.02	Rating **	М	Issue No.	74 (cont)
LM End	3.21	Issue Type +	Ma	Location *	LS

## Photo 1 of 5 : FA\_2018\_RD0563\_210\_74\_20180925\_00033.jpg



Looking southeast at dead berryvines along landward toe and berm. (Spring 2017)

Photo 2 of 5 : FA\_2018\_RD0563\_210\_74\_20180925\_00034.jpg



Looking southeast at berryvines at landward toe., (Spring 2016)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	3.02	Rating **	М	Issue No.		74 (cont)
LM End	3.21	Issue Type +	Ma	Location *		LS
Earthen Levee				GPS La	atitud	e/Longitude
Category			Start		End	
Itom	Vegetatio	n		38.2102	12°	38.209165°
Item 5				-121.536728 °		-121.539920°
DWR ID DWR_RD0563_01_s _ 2012_74						
Comment Code						

 $\ensuremath{\mathsf{V2}}$  : Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Dead berryvines and dense vegetation at landside toe blocking view of toe.

LM Start	3.02	Rating **	М	Issue No.	74 (cont)
LM End	3.21	Issue Type +	Ма	Location *	LS



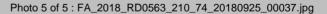
Looking south at dense vegetation (willows) at landward toe. (Spring 2016)

Photo 4 of 5: FA\_2018\_RD0563\_210\_74\_20180925\_00036.jpg



Looking southeast at dense berryvines at landward toe. (Spring 2015)

LM Start	3.02	Rating **	М	Issue No.	74 (cont)
LM End	3.21	Issue Type +	Ма	Location *	LS





Looking south at dense vegetation at landward slope and toe. (Spring 2015)

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	3.06	Rating **	U	Issue No.		78		
LM End	3.06	Issue Type +	Ma	Location *	LS			
Category	Catagon Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item	Slope Sta	bility		38.2102	40°	38.210240		
item				-121.5375	17°	-121.537517		
DWR ID	D DWR_RD0563_01_s _ 2012_78							
Comment Code								

S1: Repair slope instability.

#### Inspector Comment

Slope damage on landside shoulder and slope has been in place for several inspection cycles. Proper drainage should be provided to prevent further erosion, and erosion should be repaired.

LM Start	3.06	Rating **	U	Issue No.	78 (cont)
LM End	3.06	Issue Type +	Ma	Location *	LS

## Photo 1 of 5 : FA\_2018\_RD0563\_210\_78\_20180925\_00043.jpg



Looking southwest at the landside slope.

## Photo 2 of 5: FA\_2018\_RD0563\_210\_78\_20180925\_00044.jpg



Looking north at rain runoff erosion on landward slope. (Spirng 2017)

LM Start	3.06	Rating **	U	Issue No.	78 (cont)
LM End	3.06	Issue Type +	Ma	Location *	LS



Looking west at rain runoff erosion on landward slope. (Spring 2016)

\* Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

\*\* Rating

A: Acceptable
N: Not Inspected/Rated
M: Minimally Acceptable
U: Unacceptable
U: Unacceptable
A: Acceptable
CR: Crown

\*\* Rating

A: Acceptable
N: Not Inspected/Rated
C: Corrected
C: Corrected
A/W: Acceptable but Monitor & Maintain

\*\* Assue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	3.06	Rating **	U	Issue No.		78 (cont)	
LM End	3.06	Issue Type +	Ма	Location *		LS	
Category	Earthen L	Earthen Levee			GPS Latitude/Longitude		
Calegory	Category			Start		End	
Item	Slope Sta	bility		38.2102	40°	38.210240 °	
пеш			-121.5375	17°	-121.537517°		
DWR ID	DWR_RD0563_01_s _ 2012_78						

S1: Repair slope instability.

## Inspector Comment

Comment Code

Slope damage on landside shoulder and slope has been in place for several inspection cycles. Proper drainage should be provided to prevent further erosion, and erosion should be repaired.

LM Start	3.06	Rating **	U	Issue No.	78 (cont)
LM End	3.06	Issue Type +	Ma	Location *	LS

## Photo 4 of 5: FA\_2018\_RD0563\_210\_78\_20180925\_00046.jpg



Looking east at slope erosion. (Updated Spring 2012)

## Photo 5 of 5: FA\_2018\_RD0563\_210\_78\_20180925\_00047.jpg



Looking west at slope erosion cause by runoff on landside slope.

LM Start	3.11	Rating **	U	Issue No.		112	
LM End	3.18	Issue Type +	Ма	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory	Calegory				Start Er		
Item	Vegetatio	n		38.2100	18°	38.209495	0
пеш				-121.5383	53°	-121.539515	0
DWR ID	DWR_RD0	8_112					
Comment Code							

V7: Trees / Woody Vegetation

## Inspector Comment

Dense woody vegetation (up to 6" in diameter) along lower slope and toe prevents inspection and access. Needs to be removed.

## Photo 1 of 1: FA\_2018\_RD0563\_210\_112\_20180925\_00073.jpg



Very dense woody vegetation preventing inspection and access to landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	3.21	Rating **	U	Issue No.		68			
LM End	3.21	Issue Type +	Ма	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Trim / Thi	n Trees		38.2092	17°	38.209217°			
item				-121.5398	23°	-121.539823 °			
DWR ID	DWR ID DWR_RD0563_01_s _ 2012_68								
		Comn	nent Cod	de					
T2 : Thin to	rees to allo	w visibility of	the grou	nd and roo	m to	flood fight.			
		Inspecto	or Comm	nent					
		Порсок	or Commi	icit					

Ма

Issue No.

Location \*

68 (cont)

LS

Rating \*\*

Issue Type +

LM Start

LM End

3.21 3.21

hoto 1 of 2 : FA_20	018_RD0563_	210_68_201	80925_000	26.jpg
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forth.	4 4 4 1			
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	4			
A STATE OF THE STA				
		.61		

Looking south at dense trees on landward slope.

Photo 2 of 2: FA\_2018\_RD0563\_210\_68\_20180925\_00027.jpg



Looking southeast at dense trees on landside slope and toe.

LM Start	3.26	Rating **	М	Issue No.		764	
LM End	3.26	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		38.2085	93°	38.208593°	
item				-121.5403	32°	-121.540332°	
DWR ID	DWR_RD0	563_01_s _ 201	5_764				
		Comn	nent Cod	de			
T1 : Trim t	rees to at I	east five feet	above g	round level			
		Inspecto	or Comm	nent			

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	3.42	Rating **	М	Issue No.	94		
LM End	4.01	Issue Type +	Ma	Location *	WS		
Supplemental				GPS La	atitud	le/Longitude	
Category	Category					End	
Item		CE Erosion S	Survey,	38.2063	46 °	38.199925	0
пеш	DRAFT			-121.5408	19°	-121.544249	0
DWR ID DWR_RD0563_01_f _ 2018_94							
	Comment Code						

#### Inspector Comment

2017 Site ID: GEO 8.3 L

Status: Eroding

2017 Field Notes: New rock on levee in sections, failure of old rock in other sections, site extended upstream to account for new erosion

Site History: 1997 - Narrow eroding berm upstream of existing rock. 2001 - Staked, low fascine walls at bankline. 2011 - Minor new erosion. Site extended downstream. 2012 - Rock repair failing in one

erosion pocket. 2016 - Fresh erosion observed.



USACE 2013 Photo #1

LM Start	4.26	Rating **	M	Issue No.		141
LM End	4.29	Issue Type +	Ma	Location *		WS
Category Earthen Levee				GPS La	titud	le/Longitude
Calegory	Category					End
Item	Trim / Thi	n Trees		38.1967	77°	38.196308°
пеш				-121.54632	22 °	-121.546578°
DWR ID	563_01_f _ 201					
Comment Code						

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	4.42	Rating **	M	Issue No.		144
LM End	4.42	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		38.1949	57°	38.194957°
пеш				-121.5480	55°	-121.548055 °
DWR ID DWR_RD0563_01_f _ 2018_144						
		Comn	nent Coc	de		
T1: Trim t	rees to at I	east five feet	above g	round level.		
		Inspecto	or Comm	nent		

No Photos

LM Start	4.52	Rating **	M	Issue No.		146	
LM End	4.52	Issue Type +	Ma	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Category			Start		End		
Item	Vegetation			38.1940	90°	38.194090°	
пеш				-121.5495	68°	-121.549568 °	
DWR ID	DWR_RD0	563_01_f _ 201	8_146				
Comment Code							
V2: Remo	V2 : Remove the wild growth other than native grasses from the levee						

slopes.

Inspector Comment

Remove arundo.



View of arundo on waterside slope (October 2018).

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	4.98	Rating **	М	Issue No.		92	
LM End	5.04	Issue Type +	Ma	Location *	WS		
Category	ental	GPS Latitude/Longitude					
Calegory	itegory					End	
Item		CE Erosion S	Survey,	38.1900	73 °	38.189524°	
пеш	DRAFT			-121.5563	07°	-121.557227 °	
DWR ID	DWR ID DWR_RD0563_01_f _ 2018_92						
	Comment Code						

#### Inspector Comment

2017 Site ID: GEO 7.2 L

Status: Eroding

2017 Field Notes: New erosion at toe.

Site History: 2009 - Small scallops of erosion into the levee toe behind brush boxes. 2011 - Minor new erosion. 2012 - Site extended upstream to account for addition erosion pockets. 2016 - Fresh erosion observed.



USACE 2013 Photo #1

LM Start	5.39	Rating **	U	Issue No.	91		
LM End	5.39	Issue Type +	Ma	Location *	WS		
Category	Suppleme	ental		GPS Latitude/Longitude			
Calegory				Start		End	
ltem 2017 USACE Erosion Survey, DRAFT				38.1860	13°	38.185968 °	
				-121.5615	12°	-121.561667°	
DWR ID	DWR_RD0563_01_f _ 2018_91						
Comment Code							

## Inspector Comment

2017 Site ID: GEO 6.3 L

Status: Critical

2018: Do not see evidence of vertical face erosion from levee hinge. I do not see how this could be rated critical (Djulian).

2017 Field Notes: Upgraded to CRITICAL. Combined with 6.8. Vertical sections from mid slope to toe, vertical face from levee hinge at some locations. Wave/tide erosion at toe, evidence of beavers.

Site History: 1997 - Deep pockets of erosion and narrow berm. Reach is characterized by lots of pockets into the existing berm and/or levee slope. 1999 - Some pockets filled with rock riprap. 2000 - Exposed fabric. 2001 - Staked, low fascine walls at bankline. 2002 - New spot of rock at upstream end. Some new brush boxes. 2005 - Some stone sliding off the underlying geotextile fabric. Some new brush bundles in the brush boxes; some with missing bundles. Some boxes too low relative to high tide. 2009 - Minimal new erosion, site length extended. 2010 - New erosion on downstream end, site extended downstream. 2011 - Sites 6.1. 6.4 and 6.6 were combined. New erosion pockets, site extended to include the erosion in between the old sites. 2012 - Rock has been placed in portions of the bank since last year. 2016 - Site 5.8 was merged with this site due to new erosion connecting the sites.

## Photo 1 of 1 : FA\_2018\_RD0563\_210\_91\_20181023\_00233.jpg



USACE 2013 Photo #1

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	5.40	Rating **	С	Issue No.	24			
LM End	5.43	Issue Type +	Ma	Location *	LS			
Category	evee	GPS La	atitud	le/Longitude				
Category				Start		End		
Trim / Thin Trees				38.1857	72°	38.185595 °		
пеш				-121.561613 °		-121.562228 °		
DWR ID	DWR_RD0	563_01_s _ 201	3_24					
		Comn	nent Cod	de				
T1: Trim t	rees to at	east five feet	above g	round level				
	Inspector Comment							

No Photos

LM Start	5.88	Rating **	A/W	Issue No.	126		
LM End	5.88	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Itom	Encroach	ments		38.1823	02 °	38.182302°	
пеш	Item			-121.5692	32°	-121.569232°	
DWR ID	DWR_RD0563_01_s _ 2017_126						
Comment Code							

No Photos

PR: Prunings

Inspector Comment

Prunings stock pile on waterside slope and berm.

LM Start	5.92	Rating **	U	Issue No.		22	
LM End	5.96	Issue Type +	Ma	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Vegetation				38.1819	65°	38.181763	0
item			-121.569913 °		-121.570447	0	
DWR ID	DWR_RD0	563_01_s _ 201	2_22				

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Large cactus on landside slope.

## Photo 1 of 2: FA\_2018\_RD0563\_210\_22\_20180925\_00010.jpg



Large cactus plant on landward slope from LM 6.04 to 6.08

\*Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

\*\* Rating
A: Acceptable
N: Not Inspected/Rated
C: Corrected
C: Corrected
C: Corrected
U: Unacceptable
A/W: Acceptable but Monitor & Maintain

\*\* Rating
A: Acceptable
N: Not Inspected/Rated
C: Corrected
Ob: Design & System Obsolescence
En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	5.92	Rating **	U	Issue No.	22 (cont)		
LM End	5.96	Issue Type +	Ма	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Category				Start	End		
Itom	Vegetatio	n		38.1819	65 °	38.181763°	
пеш	Item				13°	-121.570447°	
DWR ID	ID DWR_RD0563_01_s _ 2012_22						
Comment Code							

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Large cactus on landside slope.

Photo 2 of 2: FA\_2018\_RD0563\_210\_22\_20180925\_00011.jpg



Looking downstream at dense cactus on landward slope. (Fall 2016)

6.00	Rating **	М	Issue No.		35			
6.00	Issue Type +	Ма	Location *	LS				
Category Earthen Levee					GPS Latitude/Longitude			
			Start		End			
Trim / Thin Trees				12°	38.181512°			
		-121.5712	98°	-121.571298°				
DWR_RD0563_01_s _ 2012_35								
	6.00 Earthen L Trim / Thi	6.00 Issue Type + Earthen Levee Trim / Thin Trees	6.00 Issue Type + Ma Earthen Levee Trim / Thin Trees	6.00 Issue Type + Ma Location *  Earthen Levee GPS La  Start  Trim / Thin Trees 38.1815  -121.5712	6.00 Issue Type + Ma Location *  Earthen Levee GPS Latitud Start  Trim / Thin Trees 38.181512 ° -121.571298 °			

Comment Code T1: Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

LM Start	6.38	Rating **	М	Issue No.		129	
LM End	6.46	Issue Type +	Ma	Location *		WS	
Category	ental	GPS Latitude/Longitude					
Calegory				Start		End	
2017 USACE Erosion Survey,				38.1804	62°	38.179319	0
item	DRAFT	RAFT			95°	-121.578566	0
DWR ID	DWR RD0	563 01 f 201	8 129				

Inspector Comment

Comment Code

2017 Site ID: GEO 5.8 L

Status: Eroding

2017 Field Notes: Last observed in 2013.

Site History: 2013 - Erosion pockets into the levee prism. Erosion pockets primarily located behind unmaintained brush boxes.



USACE 2013 Photo #1

\* Location + Issue Type A : Acceptable M : Minimally Acceptable Ma : Maintenance Deficiancy N/A: Not Applicable LS: Land Side N : Not Inspected/Rated WS: Water Side C : Corrected Ob : Design & System Obsolescence U : Unacceptable A/W : Acceptable but Monitor & Maintain En: Enforcement Page 29 of 49

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	6.59	Rating **	U	Issue No.	164		
LM End	6.65	Issue Type +	Ма	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start End			
Itom	Vegetatio	n		38.1774	38°	38.176647°	
пеш	Item				51 °	-121.579560 °	
DWR ID	DWR_RD0563_01_s _ 2016_164						
Comment Code							

 $\ensuremath{\text{V2}}$  : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Dense vegetation (dead berry vines) at landside toe should be removed.

## Photo 1 of 1 : FA\_2018\_RD0563\_210\_164\_20180925\_00110.jpg



Looking east at dense vegetation (vines) at landward toe.

LM Start	6.61	Rating **	М	Issue No.		89	
LM End	7.28	Issue Type +	Ma	Location *	WS		
Category	ental	GPS Latitude/Longitude					
Calegory			Start		End		
ltom	ltem 2017 USACE Erosion Survey, DRAFT				02 °	38.167959°	
пеш					39°	-121.581616°	
DWR ID	DWR_RD0563_01_f _ 2018_89						
Comment Code							

## Inspector Comment

2017 Site ID: GEO 5.3 L

Status: Eroding

2017 Field Notes: Site extended upstream, increased toe erosion from boat wake/tide action, RD has placed rock on levee slope in places. Site History: 1997 - Pocket erosion into the toe of the levee. 2000 - Scallops in banks with small colored flags, biotech rolls present. 2001 - Staked, low fascine walls at bankline. 2003 - Still have visibly bad spots, especially at the upstream end. 2005 - Some new brush bundles in the brush boxes; some with missing bundles. Some boxes too low relative to high tide. 2010 - Site extended upstream. 2011 - Minor new erosion. 2016 - Fresh erosion observed.

## Photo 1 of 1 : FA\_2018\_RD0563\_210\_89\_20181023\_00232.jpg



USACE 2013 Photo #1

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	6.64	Rating **	М	Issue No.		766	
LM End	6.64	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thin Trees			38.1768	20°	38.176820°	
пеш				-121.579444°		-121.579444°	
DWR ID	DWR_RD0	563_01_s _ 201	5_766				
		Comn	nent Cod	de			
T1: Trim t	rees to at	east five feet	above g	round level.			
	Ü						
		Inspecto	or Comm	nent			

No Photos

LM Start	6.74	Rating ** U		Issue No.		93
LM End	6.74	Issue Type + Ma		Location *		WS
Category	evee	GPS La	titud	e/Longitude		
Calegory				Start		End
Item	Encroach	ments		38.1753	52°	38.175352°
пеш				-121.5801	77 °	-121.580177°
DWR ID	R ID DWR_RD0563_01_s _ 2018_93					

Comment Code

TR: Tree or limb

## Inspector Comment

Large fallen tree should be removed from waterside slope and shoulder.



Remove fallen tree from levee slope.

LM Start	6.84	Rating **	М	Issue No.		113			
LM End	6.84	Issue Type +	Ma	Location *		LS		LS	
Category Earthen Levee				GPS La	atitud	le/Longitude			
Calegory				Start		End			
Item	Trim / Thi	n Trees		38.1739	85°	38.173985	0		
item				-121.5798	47°	-121.579847	0		
DWR ID	DWR_RD0	563_01_s _ 201	8_113						

Comment Code

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applical	le A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR · Crown	II · I Inaccentable	A/M · Acceptable but Monitor & Maintain	En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	6.89	Rating **	М	Issue No.		87	
LM End	6.89	Issue Type +	Ma	Location *		LS	
Earthen Levee				GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Trim / Thin Trees			38.1733	23°	38.173323°	
пеш				-121.5796	28°	-121.579628°	
DWR ID	DWR_RD0	563_01_s _ 201	3_87				
		Comn	nent Coc	de			
T1 : Trim t	rees to at	east five feet	above g	round level			
		Inspecto	or Comm	nent			

No Photos

LM Start	6.95	Rating **	М	Issue No.	95		
LM End	6.95	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS La	atitud	e/Longitude	
				Start		End	
Item	Encroach	ments		38.1723	51 °	38.172351 °	
пеш				-121.5795	20°	-121.579520°	
DWR ID DWR_RD0563_01_f _ 2012_95							

Comment Code

TR : Tree or limb

## Inspector Comment

Fallen tree should be removed from waterside slope.

## Photo 1 of 1: FA\_2018\_RD0563\_210\_95\_20180925\_00059.jpg



Looking southwest at prunings on waterward slope.

LM Start	7.07	Rating **	U	Issue No.		151	
LM End	7.07	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.1706	93°	38.170693	0
Rem				-121.5799	68°	-121.579968	0
DWR ID	DWR_RD0	563_01_f _ 201	4_151				

## Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Dense berryvines at landside toe.

## Photo 1 of 1 : FA\_2018\_RD0563\_210\_151\_20180925\_00106.jpg



Looking southeast at dense vegetation at landward toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	7.36	Rating **	С	Issue No.		117			
LM End	7.36	Issue Type +	Ма	Location *		WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory			Start		End				
Item	Encroach	ments		38.1668	56°	38.166856°			
пеш				-121.5820	91 °	-121.582091°			
DWR ID	DWR_RD0	563_01_f _ 201	7_117						
		Comn	nent Cod	de					
TR : Tree	or limb								
		Inspecto	or Comm	nent					

No Photos

LM Start	7.53	Rating **	U	Issue No.		85	
LM End	7.80	Issue Type +	Ma	Location *		WS	
Category	GPS La	atitud	e/Longitude				
Calegory				Start		End	
Item		ACE Erosion S	Survey,	38.164462 ° 38		38.160888	0
пеш	DRAFT			-121.5830	92°	-121.584807	o
DWR ID DWR_RD0563_01_f _ 2018_85							
Comment Code							

# Inspector Comment

2017 Site ID: GEO 4.5 L

Status: Critical

2018: Erosion happening at berm, 15 to 20' from the levee hinge point from the berm in some places, erosion into levee toe at other spots (Djulian).

2017 Field Notes: Numerous areas of bank erosion, with vertical sections up to the levee hinge.

Site History: 1997 - Pocket erosion at upstream end and into the levee toe under the Alder trees. 2003 - New brush boxes with wattles on bank. 2004 - No brush boxes. 2005 - Site extended from the downstream side of the bridge. Whole bank is vertical. 2010 - Some minor new erosion. 2011 - Site upgraded to CRITICAL. New erosion pockets throughout the site. Sites 4.5, and 4.6 were combined. 2016 - Fresh erosion observed.

## Photo 1 of 1: FA\_2018\_RD0563\_210\_85\_20181023\_00231.jpg



USACE 2013 Photo #1

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## **Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	7.62	Rating **	A/W	Issue No.	97				
LM End	7.62	Issue Type +	Ma	Location *	LS				
Category	Catagoria Earthen Levee					GPS Latitude/Longitude			
Calegory	Category					End			
Item	Slope Sta	bility		38.1632	40°	38.163240°			
пеш				-121.5833	28°	-121.583328°			
DWR ID DWR_RD0563_01_s _ 2013_97									
Comment Code									

S1: Repair slope instability.

#### Inspector Comment

Minor erosion on landside shoulder and slope should be monitored.

## Photo 1 of 1: FA\_2018\_RD0563\_210\_97\_20180925\_00060.jpg



Looking east at slope erosion on landward shoulder and slope.

LM Start	7.74	Rating **	М	Issue No.		29
LM End	7.78	Issue Type +	Ma	Location *		LS
Category	Catagori Earthen Levee					e/Longitude
Calegory			Start		End	
Item	Trim / Thin Trees			38.1616	07°	38.161092°
пеш				-121.5842	58°	-121.584470 °
DWR ID	DWR_RD0563_01_s _ 2012_29					·

#### Comment Code

T1: Trim trees to at least five feet above ground level.

## Inspector Comment

Dense (untrimmed) trees on landside slope. Branches on ground should also be removed.

## Photo 1 of 1: FA\_2018\_RD0563\_210\_29\_20180925\_00014.jpg



Looking southeast at dense trees on landward slope and toe.

LM Start	7.80	Rating **	U	Issue No.		90	
LM End	7.94	Issue Type +	Ma	Location *		LS	
Category	GPS Latitude/Longitude						
Calegory				Start		End	
Item	Vegetatio	n		38.1608	00°	38.158922	٥
item				-121.5845	98°	-121.585433	٥
DWR ID	DWR RD0	563 01 s 201	2 90				

## Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Berryvines and willows on landside toe.

# Photo 1 of 3: FA\_2018\_RD0563\_210\_90\_20180925\_00053.jpg



Looking southeast at dense vegetation at landward toe. (Spring 2015)

Location	
LS: Land Side	N/A: Not Applicable
WS · Water Side	

Acceptable Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	7.80	Rating **	U	Issue No.		90 (cont)	
LM End	7.94	Issue Type +	Ma	Location *		LS	
Category	evee	GPS La	atitud	e/Longitude			
Calegory			Start		End		
Item	Vegetatio	า		38.1608	00°	38.158922 °	
пеш				-121.584598 °		-121.585433 °	
DWR ID	DWR_RD0	563_01_s _ 201	2_90				
		Comn	nent Cod	de			
V2 : Remo	ve the wild	growth other	than na	tive grasses	s fro	m the levee	
		Inspecto	or Comm	nent			
Berryvines and willows on landside toe.							

LM Start	7.80	Rating **	U	Issue No.	90 (cont)
LM End	7.94	Issue Type +	Ma	Location *	LS



Looking northeast at dense vegetation on landside toe.

Photo 3 of 3: FA\_2018\_RD0563\_210\_90\_20180925\_00055.jpg



Looking south at dense vegetation on landside toe. (2012 Fall Inspection)

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	7.85	Rating **	М	Issue No.	84			
LM End	8.05	Issue Type +	Ma	Location *		WS		
Category	ental	GPS La	atitud	le/Longitude				
Category				Start		End		
Item		CE Erosion S	Survey,	38.1602	61 °	38.157625°		
пеш	DRAFT			-121.5850	56°	-121.586543 °		
DWR ID DWR_RD0563_01_f _ 2018_84								
	Comment Code							

#### Inspector Comment

2017 Site ID: GEO 4.3 L

Status: Eroding

2017 Field Notes: The worst sections have been filled with quarry stone , but still areas of concern.

Site History: 1997 - Pockets of erosion into the levee toe. 1999 - Minor rock riprap and willow bundles place in a couple of spots. 2001 - Staked, low fascine walls at bankline. 2003 - Small unprotected pockets still eroding. 2004 - Numerous brush boxes, some falling apart, some with new bundles. 2005 - Some new brush boxes installed; some boxes are empty. Levee slope and banks still look bad with pocket scallops into the levee slopes. 2011 - Erosion continues and the number of pockets is increasing. 2013 - Some of the downstream end was repaired by the RD. 2016 - Fresh erosion observed.



USACE 2013 Photo #1

LM Start	8.12	Rating **	М	Issue No.	83		
LM End	8.59	Issue Type +	Ma	Location *	WS		
Category	ental	GPS La	tituc	e/Longitude			
Calegory				Start		End	
Item	2017 USACE Erosion Survey,				37°	38.152919°	
пеш	DRAFT			-121.58742	27°	-121.591129°	
DWR ID DWR_RD0563_01_f _ 2018_83							
Comment Code							

## Inspector Comment

2017 Site ID: GEO 3.8 L

Status: Eroding

2017 Field Notes: Fresh toe erosion, significant undercutting and

slumping.

Site History: 1997 - Pockets of erosion into the levee at the water line. Alders are being undercut and rotating out into the channel. Damaged rock at upstream end. 2000 - New minor erosion. 2001 - Staked low fascine walls at bankline. 2002 - New "Brush Boxes" along the bank toe. 2003 - New erosion pockets in the middle of the site. 2005 - Some new bundles in the brush boxes. 2011 - Site upgraded to CRITICAL. Significant new erosion. Sites 3.6, 3.7, 3.71, and 4.0 were combined. 2012 - Rock has been placed in some of the erosion pockets since last year, however site remains critical. 2013 - Site no longer critical. The worst pockets were filled with rock by the local RD.

#### Photo 1 of 1 : FA\_2018\_RD0563\_210\_83\_20181023\_00229.jpg



USACE 2013 Photo #1

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	8.18	Rating **	U	Issue No.		767	
LM End	8.22	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.1568	78°	38.156945 °	
пеш				-121.5885	05 °	-121.589258°	
DWR ID DWR_RD0563_01_s _ 2015_767							
		Comn	nent Cod	de			
V2 : Remo slopes.	ove the wild	growth other	than na	tive grasse	s fro	m the levee	
		Inspecto	or Comm	nent			
Dead dense vegetation blocking landside toe.							



Looking south at the landside slope.

LM Start	8.64	Rating **	М	Issue No.		149			
LM End	8.64	Issue Type +	Ma	Location *		WS			
Earthen Levee				GPS La	atitud	e/Longitude			
Category			Start		End				
Itom	Trim / Thi	n Trees		38.1524	47°	38.152447°			
Item				-121.5903	55 °	-121.590355°			
DWR ID DWR_RD0563_01_f _ 2018_149									
	Comment Code								

T1: Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

LM Start	9.20	Rating **	М	Issue No.	106		
LM End	9.26	Issue Type +	Ma	Location *	LS		
Catagonia Earthen Levee				GPS La	atitud	e/Longitude	
Category			Start		End		
Item	Animal Co	ontrol		38.1461	67°	38.145835	0
пеш	em				83 °	-121.588532	0
DWR ID DWR_RD0563_01_f _ 2013_106							Ī
Comment Code							

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR · Crown	II · I Inaccentable	A/W · Accentable but Monitor & Maintain	En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	9.25	Rating **	M	Issue No.		768		
LM End	9.25	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Trim / Thi	n Trees		38.1458	97°	38.145897 °		
пеш				-121.5882	03°	-121.588203 °		
DWR ID	DWR ID DWR_RD0563_01_s _ 2015_768							
		Comn	nent Cod	de				
T1 : Trim t	rees to at I	east five feet	above g	round level.				
		Inspecto	or Comm	nent				

LM Start	9.25	Rating **	М	Issue No.	768 (cont)
LM End	9 25	Issue Type +	Ma	Location *	LS



Looking south at the landside slope.

Photo 2 of 2: FA\_2018\_RD0563\_210\_768\_20180925\_00119.jpg



Looking at untrimmed tree on landward slope.

LM Start	9.28	Rating **	U	Issue No.		98
LM End	9.28	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Trim / Thi	n Trees		38.1458	325°	38.145825°
itom				-121.5888	807°	-121.588807°
DWR ID	DWR_RD0	563_01_s _ 201	3_98			
		Comn	nent Cod	de		
T1: Trim t	rees to at I	east five feet	above g	round level		
		Inspecto	or Comm	nent		



Looking southeast at untrimmed trees on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	9.36	Rating **	М	Issue No.		769
LM End	9.43	Issue Type +	Ma	Location *	LS	
Cotagon Earthen Levee				GPS La	atitud	e/Longitude
Calegory	Category			Start		End
Item	Vegetatio	n		38.1462	76°	38.147034°
item				-121.5901	89°	-121.590907°
DWR ID DWR_RD0563_01_s _ 2015_769						
Comment Code						

 $\ensuremath{\mathsf{V2}}$  : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment



Looking east at dense vegetation at landward toe. (Spring 2015)

LM Start	9.64	Rating **	М	Issue No.	36		
LM End	9.64	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Vegetatio	n		38.14979	o°	38.149790 °	>
itein		-121.59278	8°	-121.592788 °	>		
DWR ID DWR_RD0563_01_s _ 2012_36							
		Cama	ant Car	ام			

Comment Code
V4 : Elderberries are blocking visibility and flood fight capability.

#### Inspector Comment

Vegetation blocking view of levee slope.

No Photos

LM Start	9.65	Rating **	M	Issue No.		99		
LM End	9.65	Issue Type +	Ma	Location *		LS		
Category	Earthen L	GPS La	atitud	e/Longitude				
Calegory				Start		End		
Item	Item Erosion / Bank Caving				38.149905°		0	
item		-121.592910 °		-121.592910	0			
DWR ID	DWR_RD0	563_01_s _ 201	3_99					
		Comn	nent Cod	le				
E1 : Note a	and monito	or erosion site						
Inspector Comment								
Finger eros	Finger erosion on landside shoulder and slope.							

Photo 1 of 2: FA\_2018\_RD0563\_210\_99\_20180925\_00062.jpg

Looking west at minor erosion on landward shoulder and slope.

\* Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

\*\* Rating

A: Acceptable
N: Not Inspected/Rated
M: Minimally Acceptable
U: Unacceptable
U: Unacceptable
A: Acceptable
CR: Crown

\*\* Rating

A: Acceptable
N: Not Inspected/Rated
C: Corrected
C: Corrected
A/W: Acceptable but Monitor & Maintain

\*\* Assue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	9.65	Rating **	М	Issue No.		99 (cont)	
LM End	9.65	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory			Start		End		
Item	Erosion /		38.149905°		38.149905 °		
пеш	Rem				10°	-121.592910 °	
DWR ID DWR_RD0563_01_s _ 2013_99							
		Comn	nent Cod	de			
E1 : Note a	and monito	or erosion site					
		Inspect	or Comm	nent			
Finger erosion on landside shoulder and slope.							



Looking north at minor erosion on landward shoulder and slope.

LM Start	9.73	Rating **	A/W	Issue No.		82
LM End	9.90	Issue Type +	Ma	Location *		WS
Category			GPS Latitude/Longitude			
Category				Start		End
Item	2017 USACE Erosion Survey,			38.1508	20°	38.150647°
item	DRAFT			-121.5936	50°	-121.596858°
DWR ID	DWR_RD0	563_01_f _ 201	8_82			

### Inspector Comment

Comment Code

2017 Site ID: GEO 2.5 L

Status: Eroding

2017 Field Notes: Head scarp observed.

Site History: 1997 - Erosion pockets into the toe of the levee. 2001 -Staked low fascine walls at the bankline. 2004 - Numerous "Brush Boxes." 2005 - Some new bundles in the brush boxes. 2012 - Site extended downstream to account for new bank sloughing. 2013 - Some rock added to the upstream end by the local RD.

# Photo 1 of 1: FA\_2018\_RD0563\_210\_82\_20181023\_00228.jpg



USACE 2013 Photo #1

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	9.73	Rating **	A/W	Issue No.	105			
LM End	9.78	Issue Type +	Ma	Location *				
Catagony	Supplemental				GPS Latitude/Longitude			
Category				Start		End		
Item	2017 Storm Damage			38.1508	20°	38.151196°		
пеш				-121.5936	50°	-121.594780°		
DWR ID	DWR_RD0563_01_s _ 2018_105							
	Comment Code							

#### Inspector Comment

Levee Evaluation Comments

Description: Site ID No:70

Site Designation:DWR\_RD0563\_01\_s\_2012\_49

Repair Type: Erosion Rating:Serious Field Date:6/9/2017

Notes:

LM Start	9.73	Rating **	A/W	Issue No.	105 (cont)
LM End	9.78	Issue Type +	Ma	Location *	



Photo 2 of 3: LEVAL\_FA\_2018\_70\_667.jpg



## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# **Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	9.73	Rating **	A/W	Issue No.	105 (cont)		
LM End	9.78	Issue Type +	Ma	Location *			
Category	Suppleme	ental		GPS Latitude/Longitude			
Category				Start		End	
Item	2017 Storm Damage		38.15082	0°	38.151196°		
пеш				-121.59365	0°	-121.594780°	
DWR ID	DWR_RD0563_01_s _ 2018_105						
	Comment Code						

#### Inspector Comment

Levee Evaluation Comments

Description: Site ID No:70

Site Designation:DWR\_RD0563\_01\_s\_2012\_49

Repair Type: Erosion Rating:Serious Field Date:6/9/2017

Notes:



LM Start	9.87	Rating **	U	Issue No.		124
LM End	9.87	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Erosion / I	Bank Caving		38.1508	00°	38.150800°
item				-121.5962	97°	-121.596297°
DWR ID	DWR_RD0	563_01_s _ 201	8_124			

## E2: Schedule repair of erosion site prior to the next inspection.

#### Inspector Comment

Comment Code

Severe erosion site on sandy levee should be monitored and repaired before winter 2018/19.

#### Photo 1 of 1: FA\_2018\_RD0563\_210\_124\_20180925\_00085.jpg



Erosion in sandy levee should be repaired and site protected from future erosion.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	10.15	Rating **	М	Issue No.	160		
LM End	10.27	Issue Type +	Ма	Location *	WS		
Category				GPS Latitude/Longitude			
Category				Start		End	
ltom		CE Erosion S	Survey,	38.14753	37°	38.145994°	
пеш	DRAFT DRAFT				33 °	-121.600581 °	
DWR ID	ID DWR_RD0563_01_f _ 2018_160						
Comment Code							

No Photos

#### Inspector Comment

2017 Site ID: GEO 2.0 L

Status: Eroding

2017 Field Notes: Rock placed on levee for most of site in last years,

but it is already failing, almost vertical bank.

Site History: 1997 - Erosion pockets into the toe of the levee. 2001 -Staked low fascine walls at the bankline. 2004 - Numerous "Brush Boxes." 2005 - Some new bundles in the brush boxes. 2012 - Site extended downstream to account for new bank sloughing. 2013 - Some rock added to the upstream end by the local RD. 2016 - Quarry stone is starting to fail.

LM Start	10.45	Rating **	М	Issue No.	65		
LM End	10.74	Issue Type +	Ma	Location *	WS		
Category	Supplemental			GPS La	atitud	e/Longitude	
Calegory			Start		End		
Item	2017 USA	Survey,	38.143519°		38.139918°		
пеш	DRAFT			-121.5996	77°	-121.596986°	
DWR ID DWR_RD0563_01_f _ 2018_65							
Comment Code							

#### Inspector Comment

2017 Site ID: GEO 1.7 L

Status: Eroding

2017 Field Notes: New rock placed in erosion pockets, site has improved wih work done by RD, but still some erosion pockets and toe erosion. Slump failure with headscarp at downstream end. Site History: 1997 - Old damaged rock riprap along the toe. 1999 -

Downstream end (400 ft) repaired with rock. 2002 - New rock/concrete rubble section on the downstream end. 2004 - Small pocket repairs at the downstream end. 2005 - Some new bundles in the brush boxes. 2012 - Some rock has been placed in last year.

#### Photo 1 of 1: FA\_2018\_RD0563\_210\_65\_20181023\_00111.jpg



USACE 2013 Photo #1

N: Not Inspected/Rated C : Corrected

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	10.59	Rating **	М	Issue No.	76		
LM End	10.59	Issue Type +	Ма	Location *	LS		
Earthen Levee				GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Slope Sta	bility		38.1419	40°	38.141940°	
item			-121.5980	33°	-121.598033 °		
DWR ID DWR_RD0563_01_s _ 2012_76							
		Comn	nent Cod	de			
S1 : Repai	r slope ins	tability.					
		Inspecto	or Comm	nent			
Deep depression on landside shoulder and slope; possible pipe collapse.							

		THE PARTY		
			STATE OF THE STATE	
	1 1 × 10 ×			
	<b>通知</b>			4
10年10年				
oking northeast	a denression	n on landside	shoulder a	nd sl

Looking northeast a depression on landside shoulder and slope above 10" irrigation pipe four feet below crown.

Photo 1 of 4: FA\_2018\_RD0563\_210\_76\_20180925\_00039.jpg

 LM Start
 10.59
 Rating \*\*
 M
 Issue No.
 76 (cont)

 LM End
 10.59
 Issue Type +
 Ma
 Location \*
 LS

Photo 2 of 4 : FA\_2018\_RD0563\_210\_76\_20180925\_00040.jpg



Looking east at water ponding at landside toe just above 10" irrigation pipe.

LM Start	10.59	Rating **	М	Issue No.	76 (cont)
LM End	10.59	Issue Type +	Ma	Location *	LS



Looking west at depression on landside shoulder and slope from landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	10.59	Rating **	М	Issue No.		76 (cont)		
LM End	10.59	Issue Type +	Ma	Location *	ocation * LS			
Category Earthen Levee				GPS La	atituc	le/Longitude		
Calegory				Start		End		
Item	Slope Sta		38.1419	40°	38.141940°			
пеш				-121.598033 °		-121.598033°		
DWR ID	DWR ID DWR_RD0563_01_s _ 2012_76							
		Comn	nent Cod	de				
S1 : Repai	r slope ins	tability.						
Inspector Comment								
Deep depression on landside shoulder and slope; possible pipe collapse.								

Photo 4 of 4: FA\_2018\_RD0563\_210\_76\_20180925\_00042.jpg

Looking west at depression on landside shoulder and slope.

LM Start	10.67	Rating **	С	Issue No.	100		
LM End	10.81	Issue Type +	Ma	Location *	LS		
Category	Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End	
Item	Vegetatio	n		38.1408	36°	38.139079°	
iteiii				-121.5972	30°	-121.596214°	
DWR ID	DWR_RD0	563_01_s _ 201	3_100			·	

Comment Code

V2: Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Wild rose or grape vines on landside slope and toe.

No Photos

LM Start	11.01	Rating **	M	Issue No.		770			
LM End	12.00	Issue Type +	Ma	Location *		LS			
Category Earthen Levee			GPS La	atitud	e/Longitude				
Calegory				Start		End			
Item	Vegetatio	n		38.1366	23°	38.130739	0		
пеш				-121.5942	16°	-121.579678	0		
DWR ID DWR_RD0563_01_s _ 2015_770									
	Comment Code								

Comment Code V2: Remove the wild growth other than native grasses from the levee

Inspector Comment

Dense veg (wildroses) at landside toe.

# Photo 1 of 3: FA\_2018\_RD0563\_210\_770\_20180925\_00121.jpg



Looking southeast at the landside slope.

\* Location + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence A : Acceptable M : Minimally Acceptable N/A: Not Applicable LS: Land Side N : Not Inspected/Rated WS: Water Side C : Corrected A/W : Acceptable but Monitor & Maintain U : Unacceptable En: Enforcement

slopes.

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	11.01	Rating **	М	Issue No.		770 (cont)			
LM End	12.00	Issue Type +	Ма	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Vegetation				23 °	38.130739°			
пеш				-121.594216°		-121.579678°			
DWR ID DWR_RD0563_01_s _ 2015_770									
	Comment Code								
V2 : Remove the wild growth other than native grasses from the levee slopes.									
		Inspecto	or Comm	nent					
Dense veg (wildroses) at landside toe.									



Looking northeast at dead vines at landward toe. (Spring 2017)

Photo 3 of 3: FA\_2018\_RD0563\_210\_770\_20180925\_00123.jpg



Looking southeast at dense vegetation at landward toe. (Spring 2015)

LM End 12.00 Issue Type + Ma Location *	LS

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

## Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	11.56	Rating **	М	Issue No.		63	
LM End	11.66	Issue Type +	Ma	Location *		WS	
Category	Supplemental GPS Latitude/Longitu				le/Longitude		
Category			Start		End		
Item		ACE Erosion S	Survey,	38.1305	44 °	38.129968 °	
пеш	DRAFT		-121.5876	07°	-121.585981 °		
DWR ID DWR_RD0563_01_f _ 2018_63						·	
Comment Code							

#### Inspector Comment

2017 Site ID: GEO 0.3 L

Status: Eroding

2017 Field Notes: Site shortened. New rock placed on levee slope in

erosion pockets.

Site History: 1997 - Erosion pockets into the levee toe. 1999 - Some small pockets fixed with rock riprap. 2002 - New "brush boxes" along the bank toe. 2005 - Brush boxes are empty. Some pockets are filled with new stone. 2006 - Some new rock at the downstream end (~100 ft long). Several small pockets of new rock in scallops. Brush boxes in poor to fair condition. 2010 - Site looks a little worse, some toe rock but still has erosion scars at lower to mid slope. 2011 - Site upgraded to CRITICAL. Significant new erosion. Erosion scallops are vertical and almost the height of the levee. 2012 - Rock has been placed in some of the erosion scallops and therefore the site is no longer critical. 2013 -Site shortened site. The downstream half of site was repaired by RD. Pipe no longer in site limits.

# Photo 1 of 1: FA\_2018\_RD0563\_210\_63\_20181023\_00093.jpg



USACE 2013 Photo #1

LM Start	12.00	Rating **	A/W	Issue No.		806
LM End	12.00	Issue Type +	Ma	Location *		
Category	Suppleme	ental		GPS Lati	tud	e/Longitude
Category				Start		End
Item	DWR UC	IP LMA Respo	onsibility	38.13072	3°	38.130726°
пеш				-121.57964	o °	-121.579646°
DWR ID	20172					

## Comment Code

#### Inspector Comment

FS\_ID:52771 DS ID:20172 EP\_NO: 11213

Repair Type: No Action Needed Crossing Status: Found

**UCIP Comments:** 

FIELD\_STRUCT\_DESC: 20-inch steel drainage pipe through the levee, 1 foot below the crown. Pump on the landside (LS). Siphon breaker on the waterside (WS) shoulder. (18-inch pipe [HLM 12.28] at a depth of 4feet authorized under Automatic Board Order (ABO) issued as Permit No. 11213, 1975 - Reclamation District No. 563). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M

Manual 103, June 1954, (Station ""L"" 6+48.9)].

FS Date: 7/13/2018

# Photo 1 of 3: UCIP FA 2018 52771 24731.jpg



Pump and pipes off LS toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	12.00	Rating **	A/W	Issue No.		806 (cont)
LM End	12.00	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS La	titud	e/Longitude
Calegory				Start		End
Item	DWR UCIP LMA Responsibility			38.13072	26°	38.130726°
пеш				-121.57964	16°	-121.579646°
DWR ID	20172					·

#### Inspector Comment

Comment Code

FS\_ID:52771 DS\_ID:20172 EP\_NO: 11213

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments:

FIELD\_STRUCT\_DESC: 20-inch steel drainage pipe through the levee, 1 foot below the crown. Pump on the landside (LS). Siphon breaker on the waterside (WS) shoulder. (18-inch pipe [HLM 12.28] at a depth of 4feet authorized under Automatic Board Order (ABO) issued as Permit No. 11213, 1975 - Reclamation District No. 563). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""L"" 6+48.9)].

FS Date: 7/13/2018

LM Start	12.00	Rating **	A/W	Issue No.	806 (cont)
LM End	12.00	Issue Type +	Ma	Location *	



20-inch pipe on LS toe.

#### Photo 3 of 3: UCIP\_FA\_2018\_52771\_24729.jpg



Pipe and siphon breaker on WS shoulder.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

# Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	10/11/2018 10/11/2018	David Julian

LM Start	12.04	Rating **	М	Issue No.		47		
LM End	12.04	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Trim / Thin Trees			38.1307	'58 °	38.130758°		
пеш			-121.579027°		-121.579027°			
DWR ID DWR_RD0563_01_s _ 2012_47								
	Comment Code							
T1 : Trim trees to at least five feet above ground level.								
		Inspecto	or Comm	nent				
Trim tree o	Trim tree on landside slope.							

LM Start	12.04	Rating **	М	Issue No.	47 (cont)
LM End	12 04	Issue Type +	Ma	Location *	LS



Looking northeast at the landside slope.

Photo 2 of 2 : FA\_2018\_RD0563\_210\_47\_20180925\_00020.jpg



Looking northeast at untrimmed tree at landward slope. (Spring 2015)